Menlo Park Notebook #240 [N-81-03-04]

This notebook covers the period March 1881. The entries relate to tests made of a Hampson engine running a dynamo. The author is unknown. The label on the front cover is marked "Hampson Engine." The book contains 280 numbered pages.

Blank pages not filmed: 4-273, 278-280.

10 :: 28 :: 485

225
3480
870
121 80

10 :: 28 :: 485

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GENERAL PRINTING
44 Broad St. N.Y.
May 1, 1896

Mens. Bo R Mch 4 1891

Started Harrison Engine
with Sixty Lamps.
Engine running at 485 Revs
Mch 4th Run 8 hr
" 5 " 11 "
" 7 Run 7 "
" 10 Run 4 "
" 11 Run 11 "
" 12 " 10 "
" 14 " 11
" 15 " 17
" 16 " 13
" 17 " 12
" 18 " 12 " Lamp broke
burning 108 hr

Mar 19 1881
report of the working of
hampson engine

Mar 19	run 10	hrs	435	r.p.	1218	warpths	
" 21	" 4	"	"	"	"	"	
" 23	" 10	"	"	"	"	"	
" 24	" 10	"	"	"	"	"	
" 25	" 18	"	"	"	"	"	
" 26	" 10	"	"	2 tons brake			

Strengthening field
March 17 / 88.

Curve Test of field mags
Prof. Sten[illegible] Forward

def field Mag	deflection armature	Engine Speed	Remarks
	~~3~~	~~240~~	~~[illegible]~~
13	24.5 @ 24	222	feeble on 1st strength
30	37.	209 @ 10 @ 207	
35	38	205	increased speed him of Engineer
42	52	232 @ 242	this last speed was for field —
48	57.	240	wires in field, speed 233.
66:	63	228	
70½	60	211	
72	65	230	
80.	62	207.	
78	67	212	
84	65	216	
27	71	200.	— pulley on thompson shaft

Pulley on Wetfield mac
Not loose

20 Cells gur 32°

def Mag	armature	Eng Speed
200	73	207
going down — breaking field		
173	70	216
167	70½	216
50	60	224
40	56	232
28	45	242
20	40	226.

We now go up again -

EMF Field Mag	EMF armature	Engine Speed	Remarks
open	40	247	Circuit field open
39	50	236	field on
65	60	228	
120	70	214	
176	75	219	
177	76	214	76 is as far as he can change
	Take off field		
We go up again -			
open	40	252	
30	45	241	
	~~50~~	~~250~~	
39	50	244	
50	55	240	
60	60	230	
	~~65~~	~~224~~	
50	66	265	
112	70	216	

going to take EMF of field + gradually increase speed Engine see if it effects field =

115 = speed eng - 219.
111½ " " 283
113 - " " 320

-45 or

We run the Engine. 628.

def 215 — 145 volts